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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/629,436	07/29/2003	Gert Burbach	2000.108500 5748		
75	7590 09/24/2004		EXAMINER		
J. Mike Amerson, Williams			PHAM, HOAI V		
Morgan & Amerson, P.C.			ADTIBUT	DADED MIN (DED	
Suite 1100			ART UNIT	PAPER NUMBER	
10333 Richmond			2814		
Houston, TX 77042			DATE MAILED: 09/24/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)			
		10/629,	/629,436 BURBACH ET AL.				
	Office Action Summary	Examin	er	Art Unit			
		Hoai v I	Pham	2814			
Period fo	The MAILING DATE of this commun	ication appears on t	he cover sheet with the c	orrespondence address			
A SH THE I - Exter after - If the - If NO - Failu Any I	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN usions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply specified above is less than thirty (3) period for reply is specified above, the maximum set to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no equinication. 0) days, a reply within the significant period will apply and will, by statute, cause the a	event, however, may a reply be tin atutory minimum of thirty (30) day will expire SIX (6) MONTHS from pplication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)[🛛	Responsive to communication(s) file	ed on 26 May 2004.		•			
,	☐ This action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-24 is/are pending in the a 4a) Of the above claim(s) 1-10 is/are Claim(s) is/are allowed. Claim(s) 11-24 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	withdrawn from co					
Applicati	on Papers						
10)⊠	The specification is objected to by the The drawing(s) filed on 29 July 2003 Applicant may not request that any objected to the Cartesian of	is/are: a) accep ction to the drawing(s the correction is requ) be held in abeyance. Se uired if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority (ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) Notice 3) Information	et(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (Imation Disclosure Statement(s) (PTO-1449 of Property (PTO-1449) ter No(s)/Mail Date 7/12/04.		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

Election/Restrictions

1. Applicant's election of claims 11-24 in the reply filed on June 15, 2004 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 11-24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.
- 4. Claim 11, the phrase "forming a P-doped region and an N-doped region in said semiconductor layer using said dielectric mask region to create a PN-junction between the P-doped region and the N-doped region below said dielectric mask region" is not enabled. The specification pages 13-15 and figures 2b-2c, while enabling for those skilled in the art of "using the dielectric mask (210) to form p-doped region (206)

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and n-doped region (207) to create a PN-junction between the N-doped region (207) and p-doped semiconductor layer (205)", does not enable for those skilled in the art to made or use the claimed invention of "forming a p-doped region (206) and N-doped region (207) in the semiconductor layer using the dielectric mask region (210) to create a PN-junction between the P-doped region (206) and the N-doped region (207)". Notice that P-doped region 206 and N-doped region 207 combination is not a PN-junction.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 11-13, 21, and 23, insofar clear, are rejected under 35 U.S.C. 102(e) as being anticipated by Applicant Admitted Prior Art (fig. 1, pages 4-7).

With respect to claims 11 and 13, Applicant Admitted Prior Art discloses a method, comprising:

forming a dielectric mask region (112) above a semiconductor layer (105) formed on an insulating substrate (102); and

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forming a P-doped region (106) and an N-doped region (107) in said semiconductor layer.

With respect to claim 12, Applicant Admitted Prior Art discloses forming silicide regions (111) in said P-doped and N-doped regions.

With respect to claim 21, Applicant Admitted Prior Art discloses that the P-doped region (106) and the N-doped region (107) are arranged in a side by side configuration (fig. 1).

With respect to claim 21, Applicant Admitted Prior Art discloses forming a transistor structure (110) in said semiconductor layer.

Conclusion

- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoai v Pham whose telephone number is 571-272-1715. The examiner can normally be reached on M-F.
- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael M Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hoai Pham

Patent Examiner